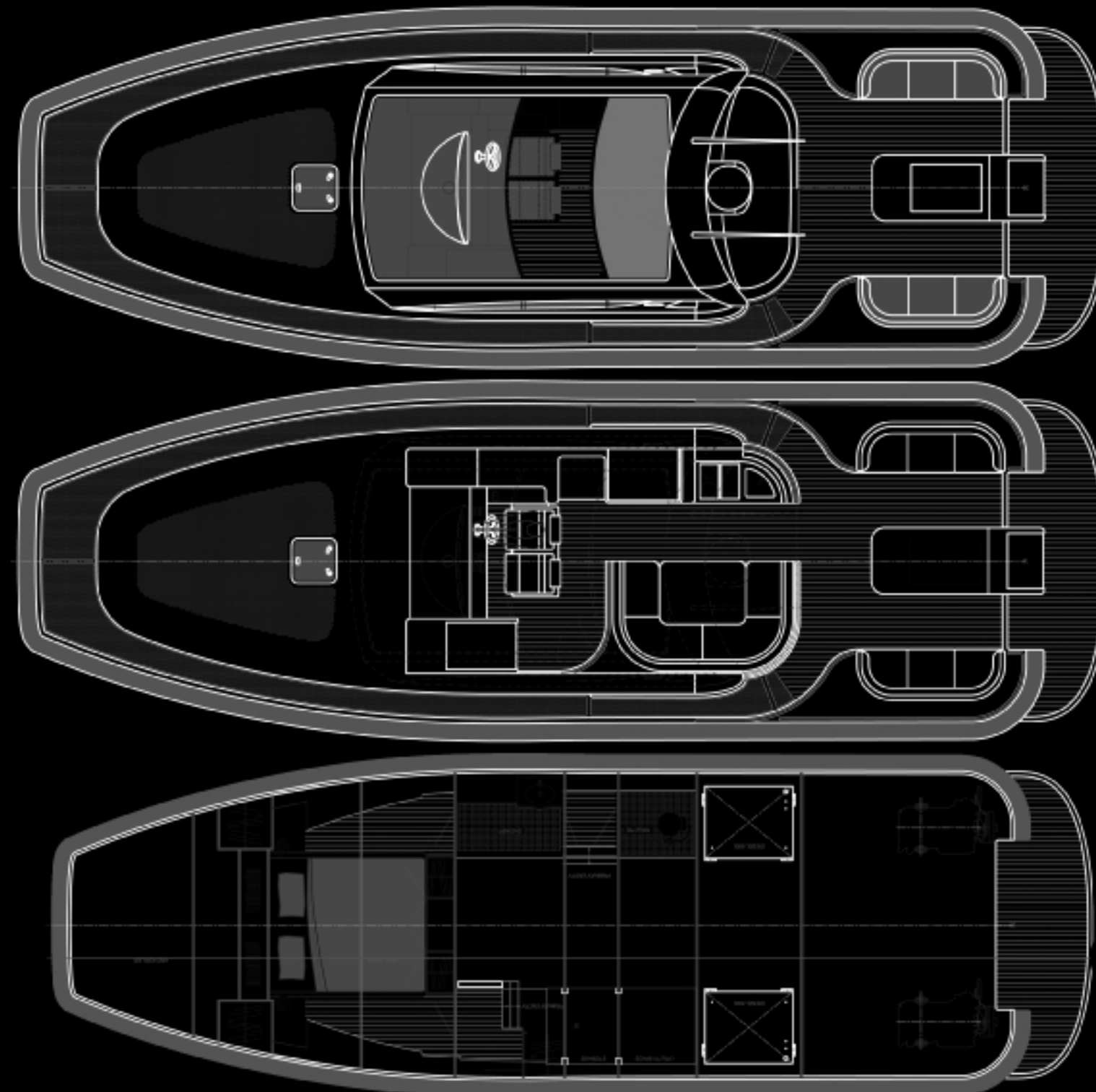
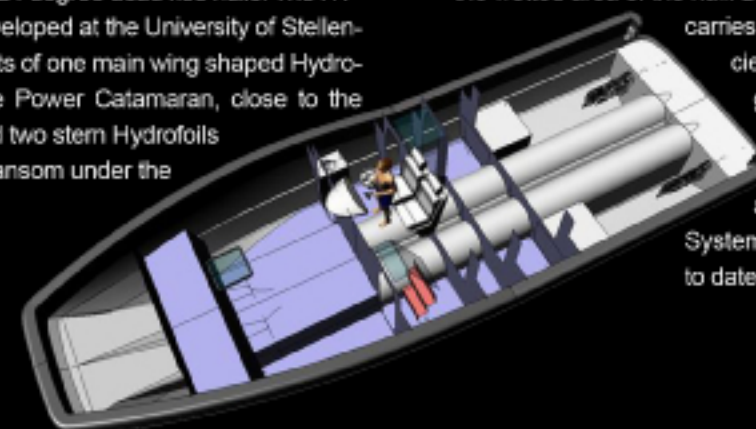




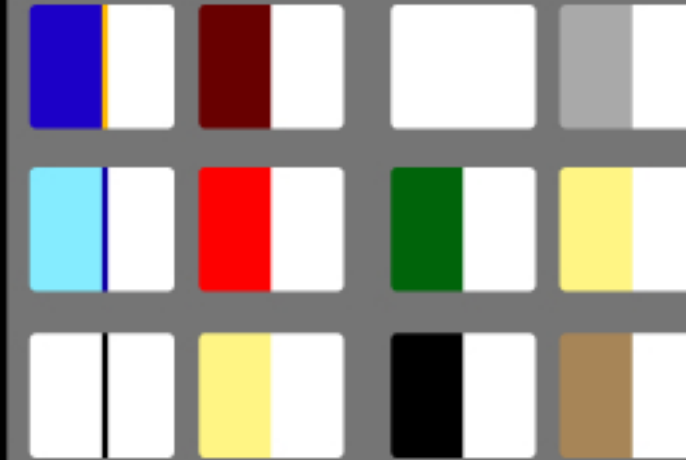
The specific hull design is an asymmetrical catamaran hull with a center-pod rounded tunnel. Specially designed and patented spray rails which were incorporated into 24 degree dead rise hulls. The HYSUCAT Hydrofoil System was developed at the University of Stellenbosch -RSA-. The system consists of one main wing shaped Hydrofoil bolted between the keels the Power Catamaran, close to the center of gravity of the vessel, and two stern Hydrofoils mounted in the tunnel near the transom under the waterline.

As the Catamaran increases speed the Hydrofoil system produces lift forces which partially lift the boat out the water and thereby reduce the wetted area of the hull. Due to the fact that the Hydrofoil System carries the weight of the Catamaran more efficiently than the hulls themselves the boat goes faster with the same engine power (20 - 40% faster). It has taken more than 15 years to perfect the shape and the positioning of this Hydrofoil System and all vessels fitted with the system to date have been successful.



Colors and Fabrics

Exterior Interior



Hydrofoil Advantages

The M2 45's patented Hysucat hydrofoil system is hidden underwater, has no moving parts and is virtually maintenance free. Integral to its hull, the system has been tested and successfully performs daily in some of the world's harshest environments. It is in continuing, record setting service on craft ranging in length from 20 to over 200 feet. The M2-45 is part of a C-change for the better in marine performance and efficiency. When underway, its hull design calmly delivers a more pleasurable boating experience that's flat out fun, whether for Sport fishing or family pleasure trips. In these boats, M2 super technology and construction know how produce an impressive array of proven real world results.

- Increased top speed with existing engines (by 20 - 40%)
- Wetted area resistance improvement of up to 45% compared to normal boats in high speed operation
- Smaller engines can be fitted to reach present top speed
- Reduced fuel consumption (by 20 - 40%)
- Increased traveling range (by 20 - 40%)
- Improved sea keeping in rough seas - due to the dampening effect of the submerged foils
- Drier ride in choppy seas, no chine spray.
- Faster acceleration from one speed to another
- Increased payload carrying capacity with less speed loss
- Reduced wake size at speed
- Increased hull strength (keels being bolted together by the main foil)
- More responsive when turning at speed foil borne
- Bank at speed more like a monohull.
- Low maintenance - no moving parts

The M2 45' is an asymmetrical planning HYdrofoil SUpported CATAmaran, capable of speed, efficiency, sea keeping, range and comfort. Combining all the advantages, the HYSUCAT Concept brings with the latest modern and practical styling exterior as well as interior, places this craft in a league of its own. She is available in a Sport Cruiser as well as a Sport Fishing or an Open model. Power plant and drive system options range from 250 hp to 440 hp diesel in-board motors with a choice of 'Z' Drive, Jet Propulsion or Surface Drives. Performance with a pair of 440 hp motors and surface drives will attain speeds well in excess of 50 knots.

Twin 315 hp motors with stern drives will give up to 45 knots with craft weight at approximately 7 tons. At around 12 knots the craft will get onto the hydrofoils, the Hydrofoil Supported Catamaran is a hybrid of a catamaran hull equipped with a hydrofoil system between the semi-hulls which carries a part of the crafts weight at speed. The efficient load carrying capability of the hydrofoil system in combination with the inherent stability and pleasant sea keeping properties of the planing catamaran results in a most economical high speed surface craft with excellent sea keeping behavior.

Specifications

Hull length: 12.9m / 42.2 ft
Length with swim step: 14.625 m / 44.7 ft
Length at waterline: 10.5 m / 33.8 ft
Beam: 4.50 m / 14.8 ft
Draft (airbody/lightship): 0.5 m / 1.65 ft
Draft (lightship): 0.55 m / 2.8 ft
Boat weight (lightship): 8.5 ft
Standard engines & running gear: (All options with hydrofoils)
2x Yanmar 370 HP with Z-drives
Fuel capacity: 1400 (2x700)
Cruising speed / Max speed: 25 Knots / 45 Knots
Fuel consumption / Range: 60 liter / 500 miles
Optional Engine & running gear: (All options with hydrofoils)
2X Yanmar 440 HP & SeaStar surface drives with 2 speed gearboxes or
2X Hamilton Jet drives
Cruising speed / Max speed: 30 Knots / 100 Knots
Fuel consumption / Range: 65 liter / 450 miles

Yacht Design & Naval Architecture: Blümel Yachts Carves / Argo Boats

Definition:

STRUCTURE:

Hull:

Female molded glass-fiber construction with isophthalic gelcoat and Vinylester resin for blistering resistance. Blue as standard. Balsa coring in hull for the highest obtainable strength/weight ratio & excellent thermal insulation. Lower reinforcement for ribs and structure. Core material monolithic and voided in areas of through-hulls. One-piece hull lamination with molded flange for deck attachment.

Deck:

Female molded with anti-slip, glass fiber construction with isophthalic gelcoat, premium grade polyester laminating resins. White as standard. Balsa or Airex foam coring in deck for the highest obtainable strength/weight ratio & excellent thermal insulation.

Hull to deck joint:

Hull and deck joined with high strength adhesive sealant, glassed from underneath and through bolted.

Structure:

Integral glass-fiber webframe (sub-floor framing structure) utilizing bi- and uni-directional E-Glass & Carbon fiber reinforcements, for hull stiffness, strength. Structural bulkheads and major furniture components bonded to hull and deck where appropriate for a rigid monocoque hull structure.

Exterior Furniture:

All deck furniture female molded gelcoat to match deck color.

WOODWORK:

Standard Woodwork

Interior woods

Reserved, pending customer selection

Teak deck

DECK HARDWARE:

Layout & Features:

Cockpit hard top with sliding roof panel

Cockpit modular weather enclosure

Large opening overhead/escape hatches. (1 LEWMAR

Opening ports (VETUSPXXS) or similar

Companionway sliding & hinged acrylic hatches, Capline safety pin.

Secured hatch boards in heavy weather

15kg Bruce anchor, 50m x 10mm chain & 50m rope

Lewmar (or similar) Spirit Electrical windlass 1000 W with remote

Control at helm station and switches in the self draining anchor locker.

Windshield wipers, heavy duty

Twin Helm seats

STAINLESS:

Stem pulpit with flag pole socket

Transom lifeline gate, 88 swimline boarding ladder

Stainless steel grab rails

Stainless pop-up cleats & appropriate fasteners, chafe guards

Bow fitting with anchor roller and anchor holder

Life lines and rail around the cap rail perimeter

MECHANICAL:

Engine & Equipment:

See running gear selection sheet above

2x 115A Alternators

Dual circuit cooling

Engine controls and engine supplied instruments at the helm station

Hydraulic power-steering, stem drive to rudd

2x700l diesel fuel tanks with fuel indicator

Fuel filters with water separators

Sea water filters

3xV blower for engine room ventilation

Service light in each engine room

Fixed 2 kg dry chem. fire extinguishers in each engine room with handle control from steering position

Stainless T-Hydrofoil (center), designed & provided by the CAE Marine and the builder

ELECTRICAL, ELECTRONICS:

110V AC Systems:

Shore power hook-up

Automatic battery charger

(3) 110V Power outlets, (Bathroom, cockpit, engine room)

6.5 KVA Generator

Microwave Miele 800W or similar

Grill Miele 1050W or similar

Helm station Electronics, Navigation equipment & Controls:

Yanmar engines gauges

Steering compass

Navigation Lights

Horn

VHF and GPS

Autopilot (OPTIONAL)

PLUMBING:

Fresh water systems:

Pressurized fresh water system with electric 12V fresh water pump and

Accumulator

Dual circuit hot water heater with 110V heating element.

Transom shower (cold & warm)

1x300l water tank with level indicator

Manual backup fresh water pump at each sink

Water maker (OPTIONAL)

Gray & Black water systems:

Electrical marine head, salt water flush

Black & Gray water tank (1x300l) with macerator pump

Salt water system:

All salt water intakes & through-hulls marine grade with valve, double clamped. All through-hull, hoses equipped with TWO hose clamps for redundancy.

Bilge system:

Hand operated bilge pump from cockpit

Each watertight compartment with electric bilge pump & float switch.

Manual override

Shower sump pump

INTERIOR:

Forward Cabin: 2000mm headroom (2) hanging lockers, dry storage

Where available, double-birth, 2000 x 1600 mm, 100 mm high density

Foam mattress. (2) reading lights, overhead light, overhead

Ventilator/escape hatch

FRP overhead

Crew Cabin (port side) 57.5mm headroom, storage in board berth,

2000 x 800mm, 100mm high density foam mattress. (1) reading light,

Overhead light

Head (starboard side): Molded headshower unit. Marine toilet in

longitudinal direction. Wash basin with pressurized bathshower.

Storage underneath the sink with access to sea-cocks. Mirror with

Overhead light

Storage: Where available, gel-coated

Standard interior materials:

Interior fabrics, overhead and hull covering materials

Alcantara, leather fabrics and colors, reserved, pending selection

Other interior outfitting

See Options

ACCESSORIES & OTHER:

Inflatable tenders, Mooring lines, Owners Manual, Declaration of

Conformity, Copy of CE or US Certificate

Courtesy footlights. Switches with dimmers. Redlight circuit in cockpit.

Air conditioning. (OPTIONAL)

NavNET, FURUNO 10" Color LCD RadarChart Plotters with optional

Accessories, Echo Sounder, GPS, Log, Sea temp. (OPTIONAL)

Extra long range tanks 2X 500l (OPTIONAL)

Cockpit specific radioed with watertight speakers. (OPTIONAL)

This document is non confidential.

M2 Design Office

Vancouver, Canada

1 604 760 2549

scottj@m2multihull.com

M2 Corporate Office

2091 Nooseneck Hill RD

Coventry RI, 02816 USA

800-547-1247

www.m2multihull.com

info@m2multihull.com

Argo Boats

7 Osmond Road Helderberg

Industrial Park

Strand Cape Town, 7140

www.argo-boats.com